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LOGINID:SSPTAJHM1624

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

| | | | |
|--------------|---|--------|---|
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| NEWS | 16 | MAR 31 | CA/CAPLUS and CASREACT patent number format for U.S. applications updated |
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| NEWS | 21 | APR 28 | EMBASE Controlled Term thesaurus enhanced |
| NEWS | 22 | APR 28 | IMSRESEARCH reloaded with enhancements |
| NEWS | 23 | MAY 30 | INPAFAMDB now available on STN for patent family searching |
| NEWS | 24 | MAY 30 | DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option |
| NEWS | 25 | JUN 06 | EPFULL enhanced with 260,000 English abstracts |
| NEWS | 26 | JUN 06 | KOREAPAT updated with 41,000 documents |
| NEWS | 27 | JUN 13 | USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications |
| | | | |
| NEWS EXPRESS | FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3, AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008 | | |
| | | | |
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability | | |
| NEWS LOGIN | Welcome Banner and News Items | | |
| NEWS IPC8 | For general information regarding STN implementation of IPC 8 | | |

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:06:21 ON 16 JUN 2008

=> file registry

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|---------------------|------------------|
| FULL ESTIMATED COST | 0.21 | 0.21 |

FILE 'REGISTRY' ENTERED AT 16:06:34 ON 16 JUN 2008

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STRUCTURE FILE UPDATES: 15 JUN 2008 HIGHEST RN 1028329-25-0

DICTIONARY FILE UPDATES: 15 JUN 2008 HIGHEST RN 1028329-25-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

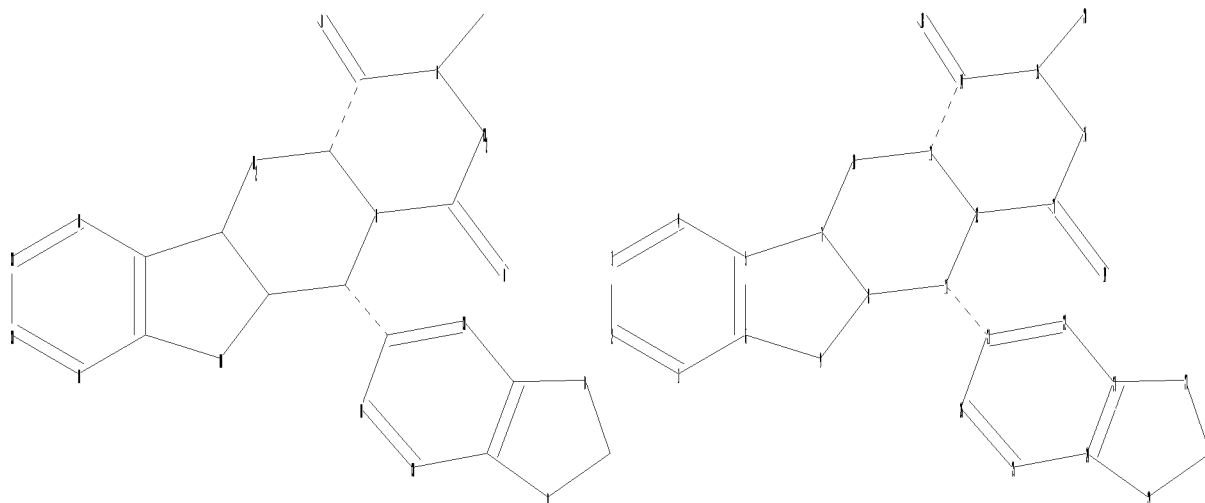
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10 series\10521393\10521393a.str



```

chain nodes :
18 19 20
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 21 22 23 24 25 26
27 28 29
chain bonds :
13-21 14-18 15-20 17-19
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 11-14
12-13 12-17 14-15 15-16 16-17 21-22 21-26 22-23 23-24 23-27 24-25 24-29
25-26 27-28 28-29
exact/norm bonds :
5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 11-14 12-13 12-17 13-21 14-15
14-18 15-16 15-20 16-17 17-19 23-27 24-29 27-28 28-29
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 21-22 21-26 22-23 23-24 24-25 25-26

```

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS
20:CLASS 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom
29:Atom

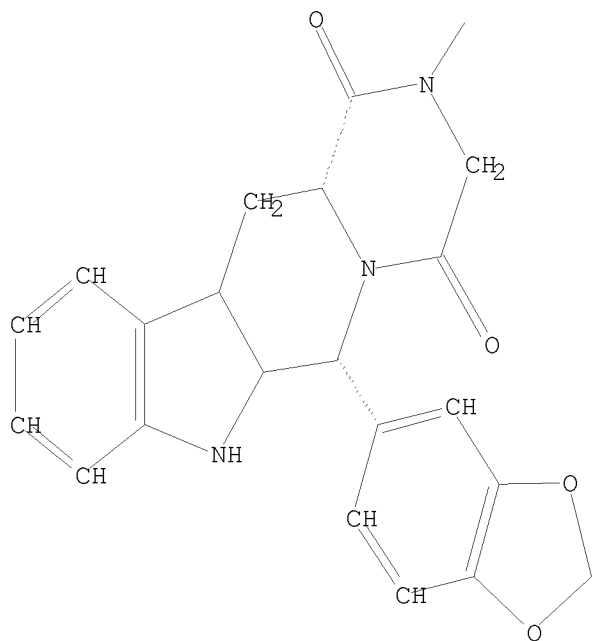
```

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 16:06:56 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 26 TO ITERATE

100.0% PROCESSED 26 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 215 TO 825

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 16:07:00 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 568 TO ITERATE

100.0% PROCESSED 568 ITERATIONS

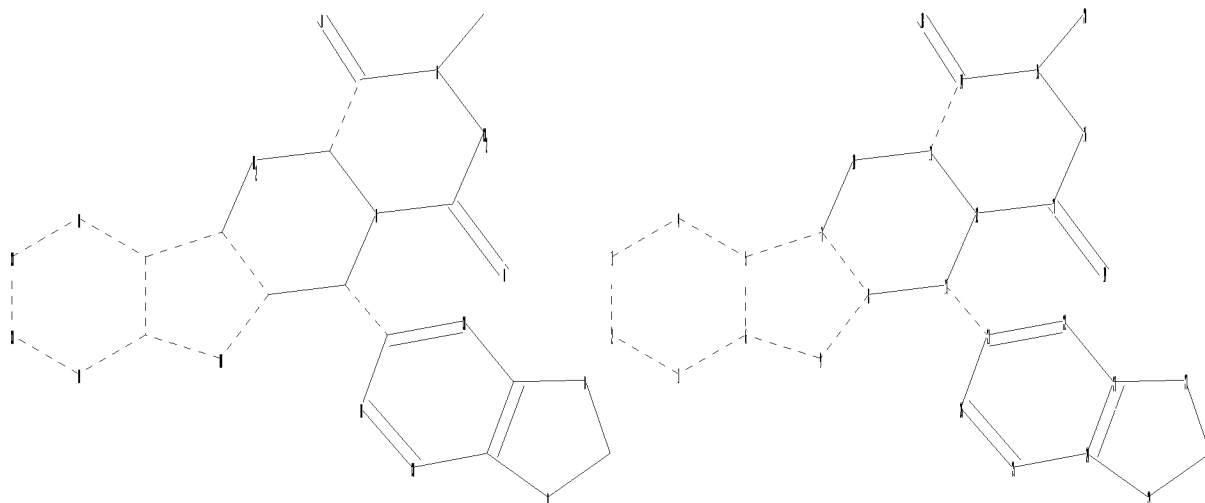
0 ANSWERS

SEARCH TIME: 00.00.01

L3 0 SEA SSS FUL L1

=>

Uploading C:\Program Files\Stnexp\Queries\10 series\10521393\10521393b.str



```

chain nodes :
18 19 20
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 21 22 23 24 25 26
27 28 29
chain bonds :
13-21 14-18 15-20 17-19
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 11-14
12-13 12-17 14-15 15-16 16-17 21-22 21-26 22-23 23-24 23-27 24-25 24-29
25-26 27-28 28-29
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 11-14
12-13 12-17 13-21 14-15 14-18 15-16 15-20 16-17 17-19 23-27 24-29 27-28
28-29
normalized bonds :
21-22 21-26 22-23 23-24 24-25 25-26

```

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS
20:CLASS 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom
29:Atom

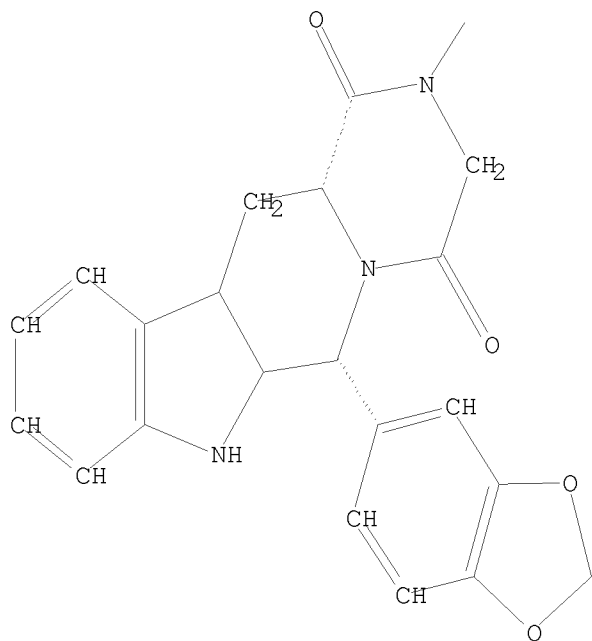
```

L4 STRUCTURE UPLOADED

```

=> d 11
L1 HAS NO ANSWERS
L1 STR

```



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 16:08:17 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 26 TO ITERATE

100.0% PROCESSED 26 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 215 TO 825

PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 16:08:21 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 568 TO ITERATE

100.0% PROCESSED 568 ITERATIONS

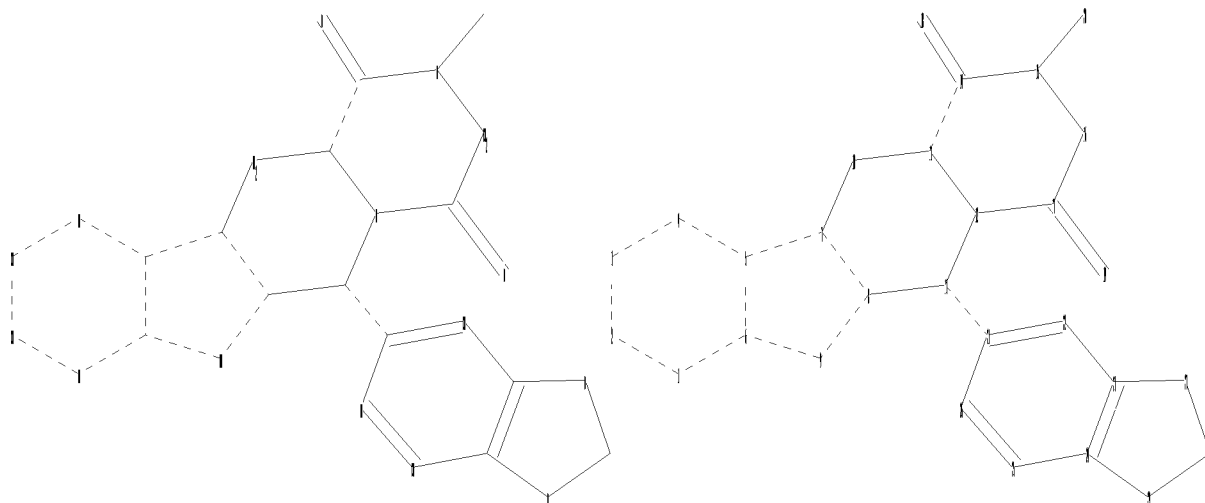
0 ANSWERS

SEARCH TIME: 00.00.01

L6 0 SEA SSS FUL L1

=>

Uploading C:\Program Files\Stnexp\Queries\10 series\10521393\10521393b.str



```

chain nodes :
18 19 20
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 21 22 23 24 25 26
27 28 29
chain bonds :
13-21 14-18 15-20 17-19
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 11-14
12-13 12-17 14-15 15-16 16-17 21-22 21-26 22-23 23-24 23-27 24-25 24-29
25-26 27-28 28-29
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 11-14
12-13 12-17 13-21 14-15 14-18 15-16 15-20 16-17 17-19 23-27 24-29 27-28
28-29
normalized bonds :
21-22 21-26 22-23 23-24 24-25 25-26

```

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS
20:CLASS 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom
29:Atom

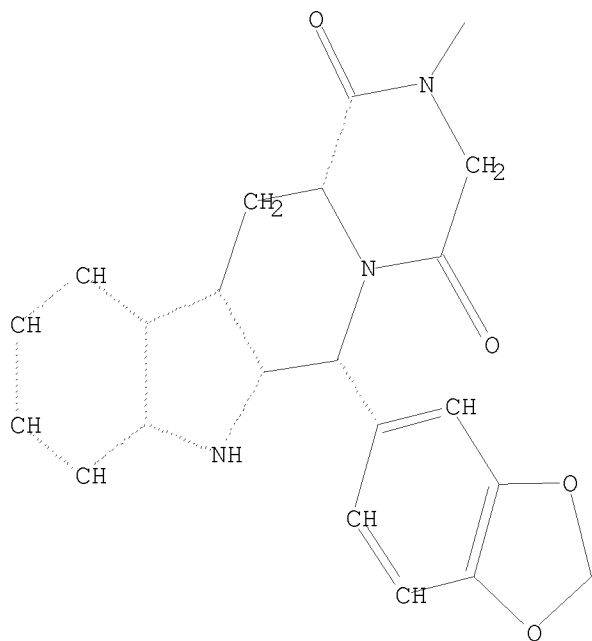
```

L7 STRUCTURE UPLOADED

```

=> d 17
L7 HAS NO ANSWERS
L7 STR

```



Structure attributes must be viewed using STN Express query preparation.

=> s 17 full

FULL SEARCH INITIATED 16:09:27 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 568 TO ITERATE

100.0% PROCESSED 568 ITERATIONS

395 ANSWERS

SEARCH TIME: 00.00.01

L8 395 SEA SSS FUL L7

=> s 17

SAMPLE SEARCH INITIATED 16:09:30 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 26 TO ITERATE

100.0% PROCESSED 26 ITERATIONS

16 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 215 TO 825

PROJECTED ANSWERS: 80 TO 560

L9 16 SEA SSS SAM L7

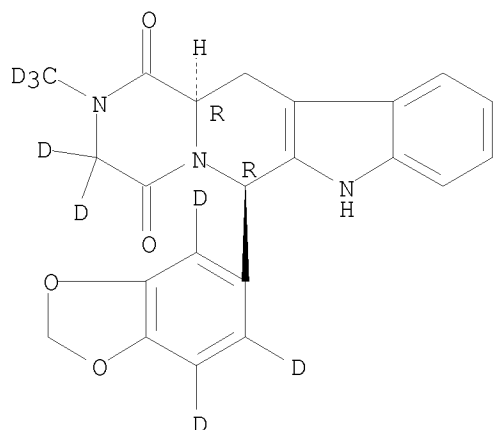
=> d scan

L9 16 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione-3-d, 6-(1,3-benzodioxol-5-yl-4,6,7-d3)-2,3,6,7,12,12a-hexahydro-3-d-2-(methyl-d3)-, (6R,12aR)-

MF C22 H11 D8 N3 O4

Absolute stereochemistry.



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus
COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 536.00 | 536.21 |

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 16:09:42 ON 16 JUN 2008
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FILE COVERS 1907 - 16 Jun 2008 VOL 148 ISS 25
FILE LAST UPDATED: 15 Jun 2008 (20080615/ED)

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=> s 18
L10 544 L8

=>
Connecting via Winsock to STN

Welcome to STN International! Enter x:X

LOGINID:SSPTAJHM1624

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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| | | | |
|--------------|---|--------|---|
| NEWS | 1 | | Web Page for STN Seminar Schedule - N. America |
| NEWS | 2 | JAN 02 | STN pricing information for 2008 now available |
| NEWS | 3 | JAN 16 | CAS patent coverage enhanced to include exemplified prophetic substances |
| NEWS | 4 | JAN 28 | USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats |
| NEWS | 5 | JAN 28 | MARPAT searching enhanced |
| NEWS | 6 | JAN 28 | USGENE now provides USPTO sequence data within 3 days of publication |
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| NEWS | 10 | FEB 20 | PCI now available as a replacement to DPCI |
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| NEWS | 13 | FEB 29 | WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification |
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| NEWS | 15 | MAR 31 | CAS REGISTRY enhanced with additional experimental spectra |
| NEWS | 16 | MAR 31 | CA/CAPLUS and CASREACT patent number format for U.S. applications updated |
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| NEWS | 21 | APR 28 | EMBASE Controlled Term thesaurus enhanced |
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| NEWS | 24 | MAY 30 | DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option |
| NEWS | 25 | JUN 06 | EPFULL enhanced with 260,000 English abstracts |
| NEWS | 26 | JUN 06 | KOREAPAT updated with 41,000 documents |
| NEWS | 27 | JUN 13 | USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications |
| | | | |
| NEWS EXPRESS | FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3, AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008 | | |
| | | | |
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability | | |
| NEWS LOGIN | Welcome Banner and News Items | | |
| NEWS IPC8 | For general information regarding STN implementation of IPC 8 | | |

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:40:15 ON 16 JUN 2008

=> file registry

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 16:40:28 ON 16 JUN 2008

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STRUCTURE FILE UPDATES: 15 JUN 2008 HIGHEST RN 1028329-25-0

DICTIONARY FILE UPDATES: 15 JUN 2008 HIGHEST RN 1028329-25-0

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

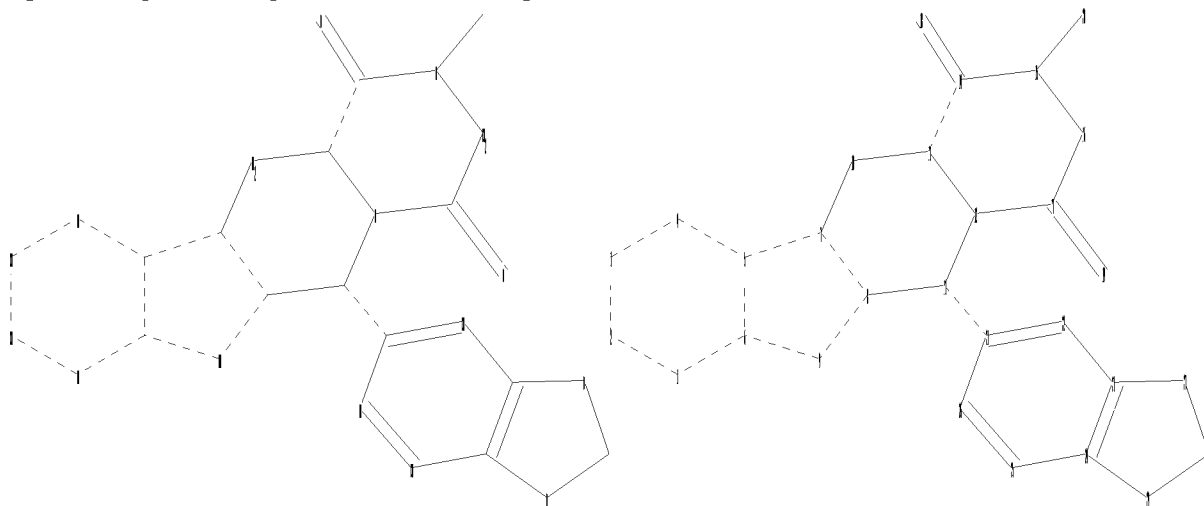
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10 series\10521393\10521393b.str



chain nodes :

18 19 20

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 21 22 23 24 25 26
27 28 29

```

chain bonds :
13-21 14-18 15-20 17-19
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 11-14
12-13 12-17 14-15 15-16 16-17 21-22 21-26 22-23 23-24 23-27 24-25 24-29
25-26 27-28 28-29
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 11-14
12-13 12-17 13-21 14-15 14-18 15-16 15-20 16-17 17-19 23-27 24-29 27-28
28-29
normalized bonds :
21-22 21-26 22-23 23-24 24-25 25-26

```

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS
20:CLASS 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom
29:Atom

```

L1 STRUCTURE UPLOADED

```

=> s l1
SAMPLE SEARCH INITIATED 16:41:03 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 26 TO ITERATE

```

```

100.0% PROCESSED      26 ITERATIONS      16 ANSWERS
SEARCH TIME: 00.00.01

```

```

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:   215 TO    825
PROJECTED ANSWERS:      80 TO    560

```

L2 16 SEA SSS SAM L1

```

=> s l1 full
FULL SEARCH INITIATED 16:41:08 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 568 TO ITERATE

```

```

100.0% PROCESSED      568 ITERATIONS      395 ANSWERS
SEARCH TIME: 00.00.01

```

L3 395 SEA SSS FUL L1

```

=> file caplus
COST IN U.S. DOLLARS      SINCE FILE      TOTAL
                        ENTRY  SESSION
FULL ESTIMATED COST      178.36      178.57

```

```

FILE 'CAPLUS' ENTERED AT 16:41:12 ON 16 JUN 2008
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FILE COVERS 1907 - 16 Jun 2008 VOL 148 ISS 25
FILE LAST UPDATED: 15 Jun 2008 (20080615/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s l3 and (pd<=20030403 or ad<=20030403 or prd<=20030403)

544 L3
23714354 PD<=20030403
(PD<=20030403)
4554241 AD<=20030403
(AD<=20030403)
4030339 PRD<=20030403
(PRD<=20030403)

L4 121 L3 AND (PD<=20030403 OR AD<=20030403 OR PRD<=20030403)

=> s l4 and d-tryptophan

2597850 D
78660 TRYPTOPHAN
1593 TRYPTOPHANS
79065 TRYPTOPHAN
(TRYPTOPHAN OR TRYPTOPHANS)
2340 D-TRYPTOPHAN
(D(W) TRYPTOPHAN)

L5 10 L4 AND D-TRYPTOPHAN

=> s l4 and tetrahydrofuran

42403 TETRAHYDROFURAN
1620 TETRAHYDROFURANS
43548 TETRAHYDROFURAN
(TETRAHYDROFURAN OR TETRAHYDROFURANS)
112569 THF
58 THFS
112588 THF
(THF OR THFS)
142539 TETRAHYDROFURAN
(TETRAHYDROFURAN OR THF)

L6 2 L4 AND TETRAHYDROFURAN

=> d l6 1-2

L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2004:101164 CAPLUS
DN 140:146170
TI Preparation of tetrahydro- β -carboline diastereomers by modified
Pictet-Spengler reaction
IN Orme, Mark W.; Martinelli, Michael John; Doecke, Christopher William;
Pawlak, Joseph Matthew; Chelius, Erik Christopher
PA Lilly Icos, LLC, USA
SO PCT Int. Appl., 37 pp.
CODEN: PIXXD2
DT Patent
LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|--------------|
| PI | WO 2004011463 | A1 | 20040205 | WO 2003-US22039 | 20030714 <-- |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| | CA 2492540 | A1 | 20040205 | CA 2003-2492540 | 20030714 <-- |
| | AU 2003256539 | A1 | 20040216 | AU 2003-256539 | 20030714 <-- |
| | BR 2003013070 | A | 20050628 | BR 2003-13070 | 20030714 <-- |
| | EP 1546149 | A1 | 20050629 | EP 2003-771620 | 20030714 <-- |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| | CN 1671706 | A | 20050921 | CN 2003-818238 | 20030714 <-- |
| | JP 2005536567 | T | 20051202 | JP 2005-505597 | 20030714 <-- |
| | NZ 537784 | A | 20080131 | NZ 2003-537784 | 20030714 <-- |
| | ZA 2005000408 | A | 20060726 | ZA 2005-408 | 20050117 <-- |
| | MX 2005PA01139 | A | 20050516 | MX 2005-PA1139 | 20050128 <-- |
| | EG 23843 | A | 20071017 | EG 2005-16 | 20050129 <-- |
| | IN 2005CN00099 | A | 20070330 | IN 2005-CN99 | 20050131 <-- |
| | NO 2005001022 | A | 20050422 | NO 2005-1022 | 20050225 <-- |
| | US 20060004203 | A1 | 20060105 | US 2005-521393 | 20050721 <-- |
| | IN 2006CN04329 | A | 20070629 | IN 2006-CN4329 | 20061124 <-- |
| | IN 2006CN04328 | A | 20070831 | IN 2006-CN4328 | 20061124 <-- |
| PRAI | US 2002-400386P | P | 20020731 | <-- | |
| | US 2003-460161P | P | 20030403 | <-- | |
| | WO 2003-US22039 | W | 20030714 | | |
| | IN 2005-CN99 | A3 | 20050131 | | |

OS CASREACT 140:146170; MARPAT 140:146170

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1997:101617 CAPLUS

DN 126:108935

OREF 126:20967a,20970a

TI Method of producing a solid dispersion of a poorly water-soluble drug

IN Butler, James Matthew

PA Glaxo Group Limited, UK; Butler, James Matthew

SO PCT Int. Appl., 27 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|--------------|
| PI | WO 9638131 | A1 | 19961205 | WO 1996-EP2299 | 19960530 <-- |
| | W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI | | | | |
| | RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN | | | | |
| | AU 9660026 | A | 19961218 | AU 1996-60026 | 19960530 <-- |
| | EP 828479 | A1 | 19980318 | EP 1996-917457 | 19960530 <-- |

EP 828479 B1 20011024
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI
 AT 207344 T 20011115 AT 1996-917457 19960530 <--
 ES 2167566 T3 20020516 ES 1996-917457 19960530 <--
 US 5985326 A 19991116 US 1998-952938 19980206 <--
 PRAI GB 1995-11220 A 19950602 <--
 WO 1996-EP2299 W 19960530 <--

=> d 16 1-10

L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2004:101164 CAPLUS
 DN 140:146170
 TI Preparation of tetrahydro- β -carboline diastereomers by modified
 Pictet-Spengler reaction
 IN Orme, Mark W.; Martinelli, Michael John; Doecke, Christopher William;
 Pawlak, Joseph Matthew; Chelius, Erik Christopher
 PA Lilly Icos, LLC, USA
 SO PCT Int. Appl., 37 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--------|---|------|----------|--|--------------|
| PI | WO 2004011463 | A1 | 20040205 | WO 2003-US22039 | 20030714 <-- |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| | CA 2492540 | A1 | 20040205 | CA 2003-2492540 | 20030714 <-- |
| | AU 2003256539 | A1 | 20040216 | AU 2003-256539 | 20030714 <-- |
| | BR 2003013070 | A | 20050628 | BR 2003-13070 | 20030714 <-- |
| | EP 1546149 | A1 | 20050629 | EP 2003-771620 | 20030714 <-- |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| | CN 1671706 | A | 20050921 | CN 2003-818238 | 20030714 <-- |
| | JP 2005536567 | T | 20051202 | JP 2005-505597 | 20030714 <-- |
| | NZ 537784 | A | 20080131 | NZ 2003-537784 | 20030714 <-- |
| | ZA 2005000408 | A | 20060726 | ZA 2005-408 | 20050117 <-- |
| | MX 2005PA01139 | A | 20050516 | MX 2005-PA1139 | 20050128 <-- |
| | EG 23843 | A | 20071017 | EG 2005-16 | 20050129 <-- |
| | IN 2005CN00099 | A | 20070330 | IN 2005-CN99 | 20050131 <-- |
| | NO 2005001022 | A | 20050422 | NO 2005-1022 | 20050225 <-- |
| | US 20060004203 | A1 | 20060105 | US 2005-521393 | 20050721 <-- |
| | IN 2006CN04329 | A | 20070629 | IN 2006-CN4329 | 20061124 <-- |
| | IN 2006CN04328 | A | 20070831 | IN 2006-CN4328 | 20061124 <-- |
| PRAI | US 2002-400386P | P | 20020731 | <-- | |
| | US 2003-460161P | P | 20030403 | <-- | |
| | WO 2003-US22039 | W | 20030714 | | |
| | IN 2005-CN99 | A3 | 20050131 | | |
| OS | CASREACT 140:146170; MARPAT 140:146170 | | | | |
| RE.CNT | 3 | | | THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD | |
| | | | | ALL CITATIONS AVAILABLE IN THE RE FORMAT | |

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1997:101617 CAPLUS
 DN 126:108935
 OREF 126:20967a,20970a
 TI Method of producing a solid dispersion of a poorly water-soluble drug
 IN Butler, James Matthew
 PA Glaxo Group Limited, UK; Butler, James Matthew
 SO PCT Int. Appl., 27 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|--------------|
| PI | WO 9638131 | A1 | 19961205 | WO 1996-EP2299 | 19960530 <-- |
| | W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI | | | | |
| | RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN | | | | |
| | AU 9660026 | A | 19961218 | AU 1996-60026 | 19960530 <-- |
| | EP 828479 | A1 | 19980318 | EP 1996-917457 | 19960530 <-- |
| | EP 828479 | B1 | 20011024 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | |
| | AT 207344 | T | 20011115 | AT 1996-917457 | 19960530 <-- |
| | ES 2167566 | T3 | 20020516 | ES 1996-917457 | 19960530 <-- |
| | US 5985326 | A | 19991116 | US 1998-952938 | 19980206 <-- |
| PRAI | GB 1995-11220 | A | 19950602 | <-- | |
| | WO 1996-EP2299 | W | 19960530 | <-- | |

=> d 15 1-10

L5 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2004:101164 CAPLUS
 DN 140:146170
 TI Preparation of tetrahydro- β -carboline diastereomers by modified Pictet-Spengler reaction
 IN Orme, Mark W.; Martinelli, Michael John; Doecke, Christopher William; Pawlak, Joseph Matthew; Chelius, Erik Christopher
 PA Lilly Icos, LLC, USA
 SO PCT Int. Appl., 37 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|--------------|
| PI | WO 2004011463 | A1 | 20040205 | WO 2003-US22039 | 20030714 <-- |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |

CA 2492540 A1 20040205 CA 2003-2492540 20030714 <--
 AU 2003256539 A1 20040216 AU 2003-256539 20030714 <--
 BR 2003013070 A 20050628 BR 2003-13070 20030714 <--
 EP 1546149 A1 20050629 EP 2003-771620 20030714 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 CN 1671706 A 20050921 CN 2003-818238 20030714 <--
 JP 2005536567 T 20051202 JP 2005-505597 20030714 <--
 NZ 537784 A 20080131 NZ 2003-537784 20030714 <--
 ZA 2005000408 A 20060726 ZA 2005-408 20050117 <--
 MX 2005PA01139 A 20050516 MX 2005-PA1139 20050128 <--
 EG 23843 A 20071017 EG 2005-16 20050129 <--
 IN 2005CN00099 A 20070330 IN 2005-CN99 20050131 <--
 NO 2005001022 A 20050422 NO 2005-1022 20050225 <--
 US 20060004203 A1 20060105 US 2005-521393 20050721 <--
 IN 2006CN04329 A 20070629 IN 2006-CN4329 20061124 <--
 IN 2006CN04328 A 20070831 IN 2006-CN4328 20061124 <--
 PRAI US 2002-400386P P 20020731 <--
 US 2003-460161P P 20030403 <--
 WO 2003-US22039 W 20030714
 IN 2005-CN99 A3 20050131
 OS CASREACT 140:146170; MARPAT 140:146170
 RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2003:784105 CAPLUS
 DN 140:12456
 TI The discovery of tadalafil: a novel and highly selective PDE5 inhibitor.
 2: 2,3,6,7,12,12a-hexahydropyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-
 dione analogue
 AU Daugan, Alain; Grondin, Pascal; Ruault, Cecile; Le Monnier de Gouville,
 Anne-Charlotte; Coste, Herve; Linget, Jean Michel; Kirilovsky, Jorge;
 Hyafil, Francois; Labaudiniere, Richard
 CS Centre de Recherches, Laboratoire GlaxoSmithKline, Les Ulis, 91951, Fr.
 SO Journal of Medicinal Chemistry (2003), 46(21), 4533-4542
 CODEN: JMCMAR; ISSN: 0022-2623
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 140:12456
 RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2002:946116 CAPLUS
 DN 138:24726
 TI Preparation of pyrazinopyridoindolediones and related compounds as
 phosphodiesterase 5 (PDE5) inhibitors
 IN Orme, Mark W.; Sawyer, Jason Scott; Schultze, Lisa M.
 PA Lilly Icos LLC, USA
 SO PCT Int. Appl., 104 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|--|------|----------|-----------------|--------------|
| PI | WO 2002098428 | A1 | 20021212 | WO 2002-US13703 | 20020502 <-- |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, | | | | |

LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
 PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
 UA, UG, US, UZ, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 CA 2445620 A1 20021212 CA 2002-2445620 20020502 <--
 AU 2002308546 A1 20021216 AU 2002-308546 20020502 <--
 EP 1401449 A1 20040331 EP 2002-776555 20020502 <--
 EP 1401449 B1 20070425
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 JP 2004536812 T 20041209 JP 2003-501467 20020502 <--
 AT 360422 T 20070515 AT 2002-776555 20020502 <--
 ES 2286291 T3 20071201 ES 2002-776555 20020502 <--
 US 20040162291 A1 20040819 US 2003-479352 20031125 <--
 US 7105506 B2 20060912
 MX 2003PA11080 A 20040708 MX 2003-PA11080 20031202 <--
 PRAI US 2001-296041P P 20010605 <--
 WO 2002-US13703 W 20020502 <--
 OS MARPAT 138:24726
 RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2002:353456 CAPLUS
 DN 136:369739
 TI Preparation of pyrazino[1',2':1,6]pyrido[3,4-b]indole derivatives as
 phosphoesterase inhibitors for use as therapeutic agents
 IN Orme, Mark W.; Sawyer, Jason Scott; Schultze, Lisa M.
 PA Lilly Icos, LLC, USA
 SO PCT Int. Appl., 66 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|--------------|
| PI WO 2002036593 | A1 | 20020510 | WO 2001-US31364 | 20011009 <-- |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG CA 2427573 A1 20020510 CA 2001-2427573 20011009 <-- AU 2002011493 A 20020515 AU 2002-11493 20011009 <-- EP 1332144 A1 20030806 EP 2001-979546 20011009 <-- EP 1332144 B1 20060823 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR JP 2004513128 T 20040430 JP 2002-539351 20011009 <-- AT 337320 T 20060915 AT 2001-979546 20011009 <-- ES 2271080 T3 20070416 ES 2001-979546 20011009 <-- US 20030229080 A1 20031211 US 2003-398720 20030409 <-- US 6878711 B2 20050412 MX 2003PA03971 A 20040212 MX 2003-PA3971 20030506 <-- PRAI US 2000-246257P P 20001106 <-- WO 2001-US31364 W 20011009 <-- | | | | |

OS MARPAT 136:369739

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2002:10475 CAPLUS

DN 136:85828

TI Preparation of pyrazinopyridoindolediones as cyclic GMP phosphodiesterase inhibitors

IN Orme, Mark W.; Sawyer, Jason Scott; Schultze, Lisa M.; Daugan, Alain Claude-Marie; Gellibert, Francoise

PA Lilly Icos LLC, USA

SO PCT Int. Appl., 81 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-----------------|--|----------|-----------------|--------------|
| PI | WO 2002000656 | A2 | 20020103 | WO 2001-US15935 | 20010515 <-- |
| | WO 2002000656 | A3 | 20031002 | | |
| | W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW | | | |
| | RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | |
| | CA 2412594 | A1 | 20020103 | CA 2001-2412594 | 20010515 <-- |
| | AU 2001061707 | A | 20020108 | AU 2001-61707 | 20010515 <-- |
| | EP 1366049 | A2 | 20031203 | EP 2001-935629 | 20010515 <-- |
| | EP 1366049 | B1 | 20060621 | | |
| | R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | |
| | JP 2004513072 | T | 20040430 | JP 2002-505780 | 20010515 <-- |
| | AT 330958 | T | 20060715 | AT 2001-935629 | 20010515 <-- |
| | ES 2269401 | T3 | 20070401 | ES 2001-935629 | 20010515 <-- |
| | US 20030225094 | A1 | 20031204 | US 2002-297682 | 20021206 <-- |
| | US 6911542 | B2 | 20050628 | | |
| | MX 2002PA12472 | A | 20040126 | MX 2002-PA12472 | 20021216 <-- |
| PRAI | US 2000-213647P | P | 20000623 | <-- | |
| | WO 2001-US15935 | W | 20010515 | <-- | |

OS MARPAT 136:85828

L5 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2001:904172 CAPLUS

DN 136:20091

TI Preparation of tetracyclic diketopiperazine compounds as PDE5 inhibitor

IN Orme, Mark W.; Daugan, Alain Claude-Marie; Bombrun, Agnes

PA Lilly Icos Llc, USA

SO PCT Int. Appl., 55 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|---|----------|-----------------|--------------|
| PI | WO 2001094347 | A1 | 20011213 | WO 2001-US15937 | 20010515 <-- |
| | W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, | | | |

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
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 RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,
 UZ, VN, YU, ZA, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 CA 2411010 A1 20011213 CA 2001-2411010 20010515 <--
 EP 1289990 A1 20030312 EP 2001-945961 20010515 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 JP 2004533402 T 20041104 JP 2002-501896 20010515 <--
 US 20030153575 A1 20030814 US 2002-296099 20021122 <--
 MX 2002PA12054 A 20030606 MX 2002-PA12054 20021205 <--
 PRAI US 2000-210324P P 20000608 <--
 WO 2001-US15937 W 20010515 <--
 OS MARPAT 136:20091
 RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2000:785898 CAPLUS
 DN 133:329627
 TI Tetracyclic cGMP-specific phosphodiesterase inhibitors and their use in
 disease treatment
 IN Daugan, Alain Claude Marie; Gellibert, Francoise
 PA Icos Corp., USA
 SO U.S., 30 pp., Cont.-in-part of PCT 9519978.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 4

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|--------------|
| PI | US 6143746 | A | 20001107 | US 1998-154051 | 19980916 <-- |
| | WO 9519978 | A1 | 19950727 | WO 1995-EP183 | 19950119 <-- |
| | W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US | | | | |
| | RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| | WO 9703675 | A1 | 19970206 | WO 1996-EP3024 | 19960711 <-- |
| | W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG | | | | |
| | RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA | | | | |
| | WO 9703985 | A1 | 19970206 | WO 1996-EP3025 | 19960711 <-- |
| | W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG | | | | |
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| | US 6025494 | A | 20000215 | US 1998-133078 | 19980812 <-- |
| | CA 2340636 | A1 | 20000323 | CA 1999-2340636 | 19990826 <-- |
| | CA 2340636 | C | 20070807 | | |
| | EP 1113800 | A1 | 20010711 | EP 1999-945201 | 19990826 <-- |

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO

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| JP 2002524516 | T | 20020806 | JP 2000-569812 | 19990826 <-- |
| US 6127542 | A | 20001003 | US 1999-399667 | 19990921 <-- |
| US 6369059 | B1 | 20020409 | US 2000-633431 | 20000807 <-- |
| CZ 289832 | B6 | 20020417 | CZ 2000-3428 | 20000919 <-- |
| US 20020119976 | A1 | 20020829 | US 2002-68114 | 20020205 <-- |
| US 6784179 | B2 | 20040831 | | |
| JP 2004217674 | A | 20040805 | JP 2004-125881 | 20040421 <-- |
| IN 2006DE00091 | A | 20070810 | IN 2006-DE91 | 20060112 <-- |
| PRAI GB 1994-1090 | A | 19940121 | <-- | |
| WO 1995-EP183 | A2 | 19950119 | <-- | |
| GB 1995-14464 | A | 19950714 | <-- | |
| GB 1995-14465 | A | 19950714 | <-- | |
| WO 1996-EP3024 | A2 | 19960711 | <-- | |
| WO 1996-EP3025 | A2 | 19960711 | <-- | |
| JP 1995-519339 | A3 | 19950119 | <-- | |
| IN 1995-DE85 | A3 | 19950123 | <-- | |
| CZ 1998-33 | A3 | 19960711 | <-- | |
| US 1996-669389 | A3 | 19960716 | <-- | |
| US 1998-133078 | A1 | 19980812 | <-- | |
| US 1998-154051 | A | 19980916 | <-- | |
| WO 1999-US19466 | W | 19990826 | <-- | |
| US 1999-399667 | A1 | 19990921 | <-- | |
| US 2000-633431 | A1 | 20000807 | <-- | |

OS MARPAT 133:329627

RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1997:215760 CAPLUS
 DN 126:203727
 OREF 126:39307a,39310a
 TI Use of cGMP-phosphodiesterase inhibitors to treat impotence
 IN Daugan, Alain Claude-Marie
 PA Laboratoire Glaxo Wellcome S.A., Fr.; Daugan, Alain Claude-Marie
 SO PCT Int. Appl., 27 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 4

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| PI WO 9703675 | A1 | 19970206 | WO 1996-EP3024 | 19960711 <-- |
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| RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA | | | | |
| CA 2226784 | A1 | 19970206 | CA 1996-2226784 | 19960711 <-- |
| CA 2226784 | C | 20030708 | | |
| AU 9664191 | A | 19970218 | AU 1996-64191 | 19960711 <-- |
| AU 704955 | B2 | 19990513 | | |
| EP 839040 | A1 | 19980506 | EP 1996-923985 | 19960711 <-- |
| EP 839040 | B1 | 20060531 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI | | | | |
| CN 1195290 | A | 19981007 | CN 1996-196723 | 19960711 <-- |
| CN 1112928 | B | 20030702 | | |
| BR 9609758 | A | 19990126 | BR 1996-9758 | 19960711 <-- |
| HU 9900065 | A2 | 19990528 | HU 1999-65 | 19960711 <-- |

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| HU 9900065 | A3 | 19991129 | | |
| JP 11509221 | T | 19990817 | JP 1996-506248 | 19960711 <-- |
| IL 122870 | A | 20020310 | IL 1996-122870 | 19960711 <-- |
| CZ 289686 | B6 | 20020313 | CZ 1998-33 | 19960711 <-- |
| RU 2181288 | C2 | 20020420 | RU 1998-102398 | 19960711 <-- |
| PL 185737 | B1 | 20030731 | PL 1996-324495 | 19960711 <-- |
| PL 185999 | B1 | 20030930 | PL 1996-357665 | 19960711 <-- |
| CN 1513452 | A | 20040721 | CN 2002-2002155791 | 19960711 <-- |
| SK 284141 | B6 | 20041005 | SK 1998-39 | 19960711 <-- |
| SK 284494 | B6 | 20050505 | SK 2003-1259 | 19960711 <-- |
| AT 327756 | T | 20060615 | AT 1996-923985 | 19960711 <-- |
| PT 839040 | T | 20060929 | PT 1996-923985 | 19960711 <-- |
| ES 2267111 | T3 | 20070301 | ES 1996-923985 | 19960711 <-- |
| NO 9800153 | A | 19980310 | NO 1998-153 | 19980113 <-- |
| NO 314685 | B1 | 20030505 | | |
| US 6140329 | A | 20001031 | US 1998-981989 | 19980310 <-- |
| HK 1005363 | A1 | 20061201 | HK 1998-104622 | 19980528 <-- |
| US 6143746 | A | 20001107 | US 1998-154051 | 19980916 <-- |
| US 6608065 | B1 | 20030819 | US 2000-573905 | 20000518 <-- |
| CZ 289832 | B6 | 20020417 | CZ 2000-3428 | 20000919 <-- |
| MX 2002PA09987 | A | 20030228 | MX 2002-PA9987 | 20021010 <-- |
| PRAI GB 1995-14464 | A | 19950714 | <-- | |
| GB 1994-1090 | A | 19940121 | <-- | |
| WO 1995-EP183 | A2 | 19950119 | <-- | |
| GB 1995-14465 | A | 19950714 | <-- | |
| CZ 1998-33 | A3 | 19960711 | <-- | |
| WO 1996-EP3024 | W | 19960711 | <-- | |
| WO 1996-EP3025 | A2 | 19960711 | <-- | |
| US 1998-981989 | A1 | 19980310 | <-- | |
| OS MARPAT 126:203727 | | | | |

L5 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1997:101617 CAPLUS

DN 126:108935

OREF 126:20967a,20970a

TI Method of producing a solid dispersion of a poorly water-soluble drug

IN Butler, James Matthew

PA Glaxo Group Limited, UK; Butler, James Matthew

SO PCT Int. Appl., 27 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | |
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| PI | WO 9638131 | A1 | 19961205 | WO 1996-EP2299 | 19960530 | <-- |
| | W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI | | | | | |
| | RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN | | | | | |
| | AU 9660026 | A | 19961218 | AU 1996-60026 | 19960530 | <-- |
| | EP 828479 | A1 | 19980318 | EP 1996-917457 | 19960530 | <-- |
| | EP 828479 | B1 | 20011024 | | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | | |
| | AT 207344 | T | 20011115 | AT 1996-917457 | 19960530 | <-- |
| | ES 2167566 | T3 | 20020516 | ES 1996-917457 | 19960530 | <-- |
| | US 5985326 | A | 19991116 | US 1998-952938 | 19980206 | <-- |
| PRAI | GB 1995-11220 | A | 19950602 | <-- | | |
| | WO 1996-EP2299 | W | 19960530 | <-- | | |

L5 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1995:986316 CAPLUS

DN 124:55977

OREF 124:10581a,10584a

TI Preparation of pyrazinopyridoindolediones as inhibitors of cyclic
guanosine 3',5'-monophosphate specific phosphodiesterase

IN Daugan, Alain Claude-Marie

PA Laboratoires Glaxo S.A., Fr.

SO PCT Int. Appl., 87 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 4

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| | ----- | ---- | ----- | ----- | ----- |
| PI | WO 9519978 | A1 | 19950727 | WO 1995-EP183 | 19950119 <-- |
| | W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US | | | | |
| | RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| | HR 950023 | B1 | 20001031 | HR 1995-23 | 19950117 <-- |
| | TW 378210 | B | 20000101 | TW 1995-84100415 | 19950118 <-- |
| | CA 2181377 | A1 | 19950727 | CA 1995-2181377 | 19950119 <-- |
| | CA 2181377 | C | 20020528 | | |
| | AU 9515748 | A | 19950808 | AU 1995-15748 | 19950119 <-- |
| | AU 689205 | B2 | 19980326 | | |
| | ZA 9500424 | A | 19950927 | ZA 1995-424 | 19950119 <-- |
| | EP 740668 | A1 | 19961106 | EP 1995-907565 | 19950119 <-- |
| | EP 740668 | B1 | 19980729 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| | CN 1143963 | A | 19970226 | CN 1995-192078 | 19950119 <-- |
| | CN 1045777 | B | 19991020 | | |
| | HU 74943 | A2 | 19970328 | HU 1996-1982 | 19950119 <-- |
| | HU 222494 | B1 | 20030728 | | |
| | JP 09508113 | T | 19970819 | JP 1995-519339 | 19950119 <-- |
| | JP 3808095 | B2 | 20060809 | | |
| | BR 9506559 | A | 19971028 | BR 1995-6559 | 19950119 <-- |
| | AT 169018 | T | 19980815 | AT 1995-907565 | 19950119 <-- |
| | IL 112384 | A | 19980816 | IL 1995-112384 | 19950119 <-- |
| | ES 2122543 | T3 | 19981216 | ES 1995-907565 | 19950119 <-- |
| | RU 2142463 | C1 | 19991210 | RU 1996-117127 | 19950119 <-- |
| | CZ 286566 | B6 | 20000517 | CZ 1996-2116 | 19950119 <-- |
| | SK 280879 | B6 | 20000814 | SK 1996-940 | 19950119 <-- |
| | PL 179744 | B1 | 20001031 | PL 1995-315559 | 19950119 <-- |
| | RO 117794 | B1 | 20020730 | RO 1996-1454 | 19950119 <-- |
| | IN 183942 | A1 | 20000520 | IN 1995-DE77 | 19950120 <-- |
| | LV 11690 | B | 19970620 | LV 1996-228 | 19960710 <-- |
| | US 5859006 | A | 19990112 | US 1996-669389 | 19960716 <-- |
| | FI 9602927 | A | 19960719 | FI 1996-2927 | 19960719 <-- |
| | FI 113176 | B1 | 20040315 | | |
| | NO 9603015 | A | 19960909 | NO 1996-3015 | 19960719 <-- |
| | NO 306465 | B1 | 19991108 | | |
| | AU 9873912 | A | 19980820 | AU 1998-73912 | 19980626 <-- |
| | AU 707055 | B2 | 19990701 | | |
| | US 6025494 | A | 20000215 | US 1998-133078 | 19980812 <-- |
| | US 6143746 | A | 20001107 | US 1998-154051 | 19980916 <-- |
| | CN 1224720 | A | 19990804 | CN 1998-122779 | 19981201 <-- |
| | CN 1070492 | B | 20010905 | | |

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| | HK 1013286 | A1 | 20000519 | HK 1998-114572 | 19981222 <-- |
| | US 6127542 | A | 20001003 | US 1999-399667 | 19990921 <-- |
| | US 6369059 | B1 | 20020409 | US 2000-633431 | 20000807 <-- |
| | US 20020119976 | A1 | 20020829 | US 2002-68114 | 20020205 <-- |
| | US 6784179 | B2 | 20040831 | | |
| | JP 2004217674 | A | 20040805 | JP 2004-125881 | 20040421 <-- |
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| PRAI | GB 1994-1090 | A | 19940121 | <-- | |
| | JP 1995-519339 | A3 | 19950119 | <-- | |
| | WO 1995-EP183 | W | 19950119 | <-- | |
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| | GB 1995-14464 | A | 19950714 | <-- | |
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| | WO 1996-EP3024 | A2 | 19960711 | <-- | |
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| | US 2000-633431 | A1 | 20000807 | <-- | |
| OS | MARPAT 124:55977 | | | | |

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L7 8 L5 NOT L6

=> d 17 1-8

L7 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2003:784105 CAPLUS
DN 140:12456
TI The discovery of tadalafil: a novel and highly selective PDE5 inhibitor.
2: 2,3,6,7,12,12a-hexahydropyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-
dione analogue
AU Daugan, Alain; Grondin, Pascal; Ruault, Cecile; Le Monnier de Gouville,
Anne-Charlotte; Coste, Herve; Linget, Jean Michel; Kirilovsky, Jorge;
Hyafil, Francois; Labaudiniere, Richard
CS Centre de Recherches, Laboratoire GlaxoSmithKline, Les Ulis, 91951, Fr.
SO Journal of Medicinal Chemistry (2003), 46(21), 4533-4542
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
OS CASREACT 140:12456
RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2002:946116 CAPLUS
DN 138:24726
TI Preparation of pyrazinopyridoindolediones and related compounds as
phosphodiesterase 5 (PDE5) inhibitors
IN Orme, Mark W.; Sawyer, Jason Scott; Schultze, Lisa M.
PA Lilly Icos LLC, USA
SO PCT Int. Appl., 104 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--------|--|------|----------|-----------------|--------------|
| PI | WO 2002098428 | A1 | 20021212 | WO 2002-US13703 | 20020502 <-- |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| | CA 2445620 | A1 | 20021212 | CA 2002-2445620 | 20020502 <-- |
| | AU 2002308546 | A1 | 20021216 | AU 2002-308546 | 20020502 <-- |
| | EP 1401449 | A1 | 20040331 | EP 2002-776555 | 20020502 <-- |
| | EP 1401449 | B1 | 20070425 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| | JP 2004536812 | T | 20041209 | JP 2003-501467 | 20020502 <-- |
| | AT 360422 | T | 20070515 | AT 2002-776555 | 20020502 <-- |
| | ES 2286291 | T3 | 20071201 | ES 2002-776555 | 20020502 <-- |
| | US 20040162291 | A1 | 20040819 | US 2003-479352 | 20031125 <-- |
| | US 7105506 | B2 | 20060912 | | |
| | MX 2003PA11080 | A | 20040708 | MX 2003-PA11080 | 20031202 <-- |
| PRAI | US 2001-296041P | P | 20010605 | <-- | |
| | WO 2002-US13703 | W | 20020502 | <-- | |
| OS | MARPAT 138:24726 | | | | |
| RE.CNT | 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD | | | | |
| | ALL CITATIONS AVAILABLE IN THE RE FORMAT | | | | |

L7 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2002:353456 CAPLUS
 DN 136:369739
 TI Preparation of pyrazino[1',2':1,6]pyrido[3,4-b]indole derivatives as
 phosphoesterase inhibitors for use as therapeutic agents
 IN Orme, Mark W.; Sawyer, Jason Scott; Schultze, Lisa M.
 PA Lilly Icos, LLC, USA
 SO PCT Int. Appl., 66 pp.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|--|------|----------|-----------------|--------------|
| PI | WO 2002036593 | A1 | 20020510 | WO 2001-US31364 | 20011009 <-- |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| | CA 2427573 | A1 | 20020510 | CA 2001-2427573 | 20011009 <-- |
| | AU 2002011493 | A | 20020515 | AU 2002-11493 | 20011009 <-- |
| | EP 1332144 | A1 | 20030806 | EP 2001-979546 | 20011009 <-- |
| | EP 1332144 | B1 | 20060823 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| | JP 2004513128 | T | 20040430 | JP 2002-539351 | 20011009 <-- |
| | AT 337320 | T | 20060915 | AT 2001-979546 | 20011009 <-- |

| | | | | |
|----------------------|----|----------|----------------|--------------|
| ES 2271080 | T3 | 20070416 | ES 2001-979546 | 20011009 <-- |
| US 20030229080 | A1 | 20031211 | US 2003-398720 | 20030409 <-- |
| US 6878711 | B2 | 20050412 | | |
| MX 2003PA03971 | A | 20040212 | MX 2003-PA3971 | 20030506 <-- |
| PRAI US 2000-246257P | P | 20001106 | <-- | |
| WO 2001-US31364 | W | 20011009 | <-- | |

OS MARPAT 136:369739

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2002:10475 CAPLUS
DN 136:85828
TI Preparation of pyrazinopyridoindolediones as cyclic GMP phosphodiesterase inhibitors
IN Orme, Mark W.; Sawyer, Jason Scott; Schultze, Lisa M.; Daugan, Alain
Claude-Marie; Gellibert, Francoise
PA Lilly Icos LLC, USA
SO PCT Int. Appl., 81 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|--------------|
| | ----- | ---- | ----- | ----- | ----- |
| PI | WO 2002000656 | A2 | 20020103 | WO 2001-US15935 | 20010515 <-- |
| | WO 2002000656 | A3 | 20031002 | | |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW | | | | |
| | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| | CA 2412594 | A1 | 20020103 | CA 2001-2412594 | 20010515 <-- |
| | AU 2001061707 | A | 20020108 | AU 2001-61707 | 20010515 <-- |
| | EP 1366049 | A2 | 20031203 | EP 2001-935629 | 20010515 <-- |
| | EP 1366049 | B1 | 20060621 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| | JP 2004513072 | T | 20040430 | JP 2002-505780 | 20010515 <-- |
| | AT 330958 | T | 20060715 | AT 2001-935629 | 20010515 <-- |
| | ES 2269401 | T3 | 20070401 | ES 2001-935629 | 20010515 <-- |
| | US 20030225094 | A1 | 20031204 | US 2002-297682 | 20021206 <-- |
| | US 6911542 | B2 | 20050628 | | |
| | MX 2002PA12472 | A | 20040126 | MX 2002-PA12472 | 20021216 <-- |
| PRAI | US 2000-213647P | P | 20000623 | <-- | |
| | WO 2001-US15935 | W | 20010515 | <-- | |
| OS | MARPAT 136:85828 | | | | |

L7 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2001:904172 CAPLUS
DN 136:20091
TI Preparation of tetracyclic diketopiperazine compounds as PDE5 inhibitor
IN Orme, Mark W.; Daugan, Alain Claude-Marie; Bombrun, Agnes
PA Lilly Icos Llc, USA
SO PCT Int. Appl., 55 pp.
CODEN: PIXXD2
DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|--------------|
| PI | WO 2001094347 | A1 | 20011213 | WO 2001-US15937 | 20010515 <-- |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW | | | | |
| | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| | CA 2411010 | A1 | 20011213 | CA 2001-2411010 | 20010515 <-- |
| | EP 1289990 | A1 | 20030312 | EP 2001-945961 | 20010515 <-- |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| | JP 2004533402 | T | 20041104 | JP 2002-501896 | 20010515 <-- |
| | US 20030153575 | A1 | 20030814 | US 2002-296099 | 20021122 <-- |
| | MX 2002PA12054 | A | 20030606 | MX 2002-PA12054 | 20021205 <-- |
| PRAI | US 2000-210324P | P | 20000608 | <-- | |
| | WO 2001-US15937 | W | 20010515 | <-- | |

OS MARPAT 136:20091

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2000:785898 CAPLUS

DN 133:329627

TI Tetracyclic cGMP-specific phosphodiesterase inhibitors and their use in disease treatment

IN Daugan, Alain Claude Marie; Gellibert, Francoise

PA Icos Corp., USA

SO U.S., 30 pp., Cont.-in-part of PCT 9519978.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 4

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|--------------|
| PI | US 6143746 | A | 20001107 | US 1998-154051 | 19980916 <-- |
| | WO 9519978 | A1 | 19950727 | WO 1995-EP183 | 19950119 <-- |
| | W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US | | | | |
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| | WO 9703675 | A1 | 19970206 | WO 1996-EP3024 | 19960711 <-- |
| | W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG | | | | |
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| | WO 9703985 | A1 | 19970206 | WO 1996-EP3025 | 19960711 <-- |
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RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
 IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA
 US 6025494 A 20000215 US 1998-133078 19980812 <--
 CA 2340636 A1 20000323 CA 1999-2340636 19990826 <--
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 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO
 JP 2002524516 T 20020806 JP 2000-569812 19990826 <--
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 US 6369059 B1 20020409 US 2000-633431 20000807 <--
 CZ 289832 B6 20020417 CZ 2000-3428 20000919 <--
 US 20020119976 A1 20020829 US 2002-68114 20020205 <--
 US 6784179 B2 20040831
 JP 2004217674 A 20040805 JP 2004-125881 20040421 <--
 IN 2006DE00091 A 20070810 IN 2006-DE91 20060112 <--
 PRAI GB 1994-1090 A 19940121 <--
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 GB 1995-14464 A 19950714 <--
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 JP 1995-519339 A3 19950119 <--
 IN 1995-DE85 A3 19950123 <--
 CZ 1998-33 A3 19960711 <--
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 US 1998-133078 A1 19980812 <--
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 US 2000-633431 A1 20000807 <--
 OS MARPAT 133:329627
 RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1997:215760 CAPLUS
 DN 126:203727
 OREF 126:39307a,39310a
 TI Use of cGMP-phosphodiesterase inhibitors to treat impotence
 IN Daugan, Alain Claude-Marie
 PA Laboratoire Glaxo Wellcome S.A., Fr.; Daugan, Alain Claude-Marie
 SO PCT Int. Appl., 27 pp.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 4

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|--------------|
| PI | WO 9703675 | A1 | 19970206 | WO 1996-EP3024 | 19960711 <-- |
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| | RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA | | | | |
| | CA 2226784 | A1 | 19970206 | CA 1996-2226784 | 19960711 <-- |
| | CA 2226784 | C | 20030708 | | |
| | AU 9664191 | A | 19970218 | AU 1996-64191 | 19960711 <-- |
| | AU 704955 | B2 | 19990513 | | |
| | EP 839040 | A1 | 19980506 | EP 1996-923985 | 19960711 <-- |
| | EP 839040 | B1 | 20060531 | | |

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI

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| HU | 9900065 | A2 | 19990528 | HU | 1999-65 | 19960711 | <-- |
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| IL | 122870 | A | 20020310 | IL | 1996-122870 | 19960711 | <-- |
| CZ | 289686 | B6 | 20020313 | CZ | 1998-33 | 19960711 | <-- |
| RU | 2181288 | C2 | 20020420 | RU | 1998-102398 | 19960711 | <-- |
| PL | 185737 | B1 | 20030731 | PL | 1996-324495 | 19960711 | <-- |
| PL | 185999 | B1 | 20030930 | PL | 1996-357665 | 19960711 | <-- |
| CN | 1513452 | A | 20040721 | CN | 2002-2002155791 | 19960711 | <-- |
| SK | 284141 | B6 | 20041005 | SK | 1998-39 | 19960711 | <-- |
| SK | 284494 | B6 | 20050505 | SK | 2003-1259 | 19960711 | <-- |
| AT | 327756 | T | 20060615 | AT | 1996-923985 | 19960711 | <-- |
| PT | 839040 | T | 20060929 | PT | 1996-923985 | 19960711 | <-- |
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| NO | 9800153 | A | 19980310 | NO | 1998-153 | 19980113 | <-- |
| NO | 314685 | B1 | 20030505 | | | | |
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| HK | 1005363 | A1 | 20061201 | HK | 1998-104622 | 19980528 | <-- |
| US | 6143746 | A | 20001107 | US | 1998-154051 | 19980916 | <-- |
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| CZ | 289832 | B6 | 20020417 | CZ | 2000-3428 | 20000919 | <-- |
| MX | 2002PA09987 | A | 20030228 | MX | 2002-PA9987 | 20021010 | <-- |
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| OS | MARPAT 126:203727 | | | | | | |

L7 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1995:986316 CAPLUS

DN 124:55977

OREF 124:10581a,10584a

TI Preparation of pyrazinopyridoindolediones as inhibitors of cyclic
guanosine 3',5'-monophosphate specific phosphodiesterase

IN Daugan, Alain Claude-Marie

PA Laboratoires Glaxo S.A., Fr.

SO PCT Int. Appl., 87 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 4

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|--|------|----------|------------------|--------------|
| | ----- | ---- | ----- | ----- | ----- |
| PI | WO 9519978 | A1 | 19950727 | WO 1995-EP183 | 19950119 <-- |
| | W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US | | | | |
| | RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| | HR 950023 | B1 | 20001031 | HR 1995-23 | 19950117 <-- |
| | TW 378210 | B | 20000101 | TW 1995-84100415 | 19950118 <-- |

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| CA 2181377 | C | 20020528 | | |
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| AU 689205 | B2 | 19980326 | | |
| ZA 9500424 | A | 19950927 | ZA 1995-424 | 19950119 <-- |
| EP 740668 | A1 | 19961106 | EP 1995-907565 | 19950119 <-- |
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| JP 09508113 | T | 19970819 | JP 1995-519339 | 19950119 <-- |
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| IL 112384 | A | 19980816 | IL 1995-112384 | 19950119 <-- |
| ES 2122543 | T3 | 19981216 | ES 1995-907565 | 19950119 <-- |
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| CZ 286566 | B6 | 20000517 | CZ 1996-2116 | 19950119 <-- |
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| IN 183942 | A1 | 20000520 | IN 1995-DE77 | 19950120 <-- |
| LV 11690 | B | 19970620 | LV 1996-228 | 19960710 <-- |
| US 5859006 | A | 19990112 | US 1996-669389 | 19960716 <-- |
| FI 9602927 | A | 19960719 | FI 1996-2927 | 19960719 <-- |
| FI 113176 | B1 | 20040315 | | |
| NO 9603015 | A | 19960909 | NO 1996-3015 | 19960719 <-- |
| NO 306465 | B1 | 19991108 | | |
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| AU 707055 | B2 | 19990701 | | |
| US 6025494 | A | 20000215 | US 1998-133078 | 19980812 <-- |
| US 6143746 | A | 20001107 | US 1998-154051 | 19980916 <-- |
| CN 1224720 | A | 19990804 | CN 1998-122779 | 19981201 <-- |
| CN 1070492 | B | 20010905 | | |
| HK 1013286 | A1 | 20000519 | HK 1998-114572 | 19981222 <-- |
| US 6127542 | A | 20001003 | US 1999-399667 | 19990921 <-- |
| US 6369059 | B1 | 20020409 | US 2000-633431 | 20000807 <-- |
| US 20020119976 | A1 | 20020829 | US 2002-68114 | 20020205 <-- |
| US 6784179 | B2 | 20040831 | | |
| JP 2004217674 | A | 20040805 | JP 2004-125881 | 20040421 <-- |
| IN 2006DE00091 | A | 20070810 | IN 2006-DE91 | 20060112 <-- |
| PRAI GB 1994-1090 | A | 19940121 | <-- | |
| JP 1995-519339 | A3 | 19950119 | <-- | |
| WO 1995-EP183 | W | 19950119 | <-- | |
| IN 1995-DE85 | A3 | 19950123 | <-- | |
| GB 1995-14464 | A | 19950714 | <-- | |
| GB 1995-14465 | A | 19950714 | <-- | |
| WO 1996-EP3024 | A2 | 19960711 | <-- | |
| WO 1996-EP3025 | A2 | 19960711 | <-- | |
| US 1996-669389 | A3 | 19960716 | <-- | |
| US 1998-133078 | A1 | 19980812 | <-- | |
| US 1999-399667 | A1 | 19990921 | <-- | |
| US 2000-633431 | A1 | 20000807 | <-- | |
| OS MARPAT 124:55977 | | | | |

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        6 ISOPROPYLS
      81785 ISOPROPYL
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(ISOPROPYL OR ISOPROPYLS)

287107 ALCOHOL

183368 ALCOHOLS

435104 ALCOHOL

(ALCOHOL OR ALCOHOLS)

614788 ALC

198191 ALCS

713764 ALC

(ALC OR ALCS)

890646 ALCOHOL

(ALCOHOL OR ALC)

15469 ISOPROPYL ALCOHOL

(ISOPROPYL(W)ALCOHOL)

L8 0 L5 AND ISOPROPYL ALCOHOL

=> s 15 and isopropanol

35161 ISOPROPANOL

45 ISOPROPANOLS

35189 ISOPROPANOL

(ISOPROPANOL OR ISOPROPANOLS)

L9 1 L5 AND ISOPROPANOL

=> d 19

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2004:101164 CAPLUS

DN 140:146170

TI Preparation of tetrahydro- β -carboline diastereomers by modified
Pictet-Spengler reaction

IN Orme, Mark W.; Martinelli, Michael John; Doecke, Christopher William;
Pawlak, Joseph Matthew; Chelius, Erik Christopher

PA Lilly Icos, LLC, USA

SO PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|--------------|
| | ----- | ---- | ----- | ----- | ----- |
| PI | WO 2004011463 | A1 | 20040205 | WO 2003-US22039 | 20030714 <-- |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, | | | | |
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| | TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
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| | FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, | | | | |
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| | CA 2492540 | A1 | 20040205 | CA 2003-2492540 | 20030714 <-- |
| | AU 2003256539 | A1 | 20040216 | AU 2003-256539 | 20030714 <-- |
| | BR 2003013070 | A | 20050628 | BR 2003-13070 | 20030714 <-- |
| | EP 1546149 | A1 | 20050629 | EP 2003-771620 | 20030714 <-- |
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| | IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| | CN 1671706 | A | 20050921 | CN 2003-818238 | 20030714 <-- |
| | JP 2005536567 | T | 20051202 | JP 2005-505597 | 20030714 <-- |
| | NZ 537784 | A | 20080131 | NZ 2003-537784 | 20030714 <-- |
| | ZA 2005000408 | A | 20060726 | ZA 2005-408 | 20050117 <-- |
| | MX 2005PA01139 | A | 20050516 | MX 2005-PA1139 | 20050128 <-- |
| | EG 23843 | A | 20071017 | EG 2005-16 | 20050129 <-- |

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| NO 2005001022 | A | 20050422 | NO 2005-1022 | 20050225 <-- |
| US 20060004203 | A1 | 20060105 | US 2005-521393 | 20050721 <-- |
| IN 2006CN04329 | A | 20070629 | IN 2006-CN4329 | 20061124 <-- |
| IN 2006CN04328 | A | 20070831 | IN 2006-CN4328 | 20061124 <-- |
| PRAI US 2002-400386P | P | 20020731 | <-- | |
| US 2003-460161P | P | 20030403 | <-- | |
| WO 2003-US22039 | W | 20030714 | | |
| IN 2005-CN99 | A3 | 20050131 | | |

OS CASREACT 140:146170; MARPAT 140:146170

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s 15 and alcohol

287107 ALCOHOL

183368 ALCOHOLS

435104 ALCOHOL

(ALCOHOL OR ALCOHOLS)

614788 ALC

198191 ALCS

713764 ALC

(ALC OR ALCS)

890646 ALCOHOL

(ALCOHOL OR ALC)

L10 0 L5 AND ALCOHOL

| | | |
|----------------------|------------|---------|
| => log y | | |
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| | ENTRY | SESSION |
| FULL ESTIMATED COST | 59.11 | 237.68 |

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